

WHAT IS CLAIMED IS:

1. A fluidizer for fluidizing a particulate substance in a fill shoe, comprising a non-cylindrical shape wherein the fluidizer comprises a body at least partially positioned within a flow of the particulate substance wherein at least some of the particulate substance flows around the body.
2. A fluidizer according to claim 1, wherein the fluidizer has a symmetrical shape about an inlet connection.
3. A fluidizer according to claim 1, wherein the non-cylindrical shape of the fluidizer is a cross, a helix, a curvature, a circle, an offset zig-zag, or a spiral-funnel.
4. A fluidizer according to claim 1, wherein the fluidizer as a whole has a non-cylindrical shape.
5. A fluidizer according to claim 4, wherein the non-cylindrical shape of the fluidizer is a cross, a helix, a curvature, a circle, an offset zig-zag, or a spiral-funnel.
6. A fluidizer according to claim 1, wherein the non-cylindrical shape of the fluidizer is a cross.

7. A fluidizer according to claim 1, wherein the non-cylindrical shape of the fluidizer is a helix.

8. A fluidizer according to claim 1, wherein the non-cylindrical shape of the fluidizer is a curvature.

9. A fluidizer according to claim 1, wherein the non-cylindrical shape of the fluidizer is a circle.

10. A fluidizer according to claim 1, wherein the non-cylindrical shape of the fluidizer is an offset zig-zag.

11. A fluidizer according to claim 1, wherein the non-cylindrical shape of the fluidizer is a spiral-funnel.

12. A fluidizer according to claim 4, wherein the non-cylindrical shape of the fluidizer is a cross.

13. A fluidizer according to claim 4, wherein the non-cylindrical shape of the fluidizer is a helix.

14. A fluidizer according to claim 4, wherein the non-cylindrical shape of the fluidizer is a curvature.

15. A fluidizer according to claim 4, wherein the non-cylindrical shape of the fluidizer is a circle.

16. A fluidizer according to claim 4, wherein the non-cylindrical shape of the fluidizer is an offset zig-zag.

17. A fluidizer according to claim 4, wherein the non-cylindrical shape of the fluidizer is a spiral-funnel.